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			ing to Regulation (EC) No. 190	-					
		Section 1. Ide	entification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking			
1.1	Product Product Synony	Name:	25535 (R,S)-BHFF 5,7-bis(1,1-dimethylethyl)-3-hydroxy-3-(trifluor	romethyl)-2(3H)-b	penzofuranone; rac-BHFF;			
1.2		t identified uses of that identified uses:	the substance or mixture and uses advised against: For research use only, not for human or veterinary use.						
1.3	Details (of the Supplier of the	-		,				
1.0		any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
	Web s	ite address:	www.caymanchem.com						
	Inform	ation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
1.4	Emerge	ncy telephone numb	er:						
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887			
			Section 2. Ha	zards Identific	ation				
	GHS S		Warning						
	GHS Signal Word: Warning GHS Hazard Phrases:								
	H302: Harmful if swallowed.								
	GHS F	Precaution Phrases:							
	P264: Wash {hands} thoroughly after handling.								
	GHS Response Phrases: P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth.								
 GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Adverse Human Health Harmful if swallowed.).				
2.3		and Symptoms: M M M	laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp	or skin absorption. iratory system irritatio	on.	piratory tract.			
		Sectio	n 3. Composition	/Information c	on Ingredie	nts			
CAS RTE	;#/ CS#	1	ents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification			
	557-91-5	(R,S)-BHFF		100.0 %	802-993-3 NA	Acute Tox.(O) 4: H302			
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		Section 4. First Aid Measures					
4.1	4.1 Description of First Aid						
	Measures:						
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.					
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.					
		Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing Media:	a solid water stream may be inefficient.					
5.2	Flammable Properties an Hazards:	dNo data available.					
		No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.					
		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.					
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,					
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.					
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.					
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						
		Section 7. Handling and Storage					
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taker	Keep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Sec	tion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						



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8.2	man						
	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
		Is below recommended exposure limits.					
8.2.2	Personal protection equipment:						
		/ glasses					
	-	patible chemical-resistant gloves					
	Other Protective Clothing:	-					
	-	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally					
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
		Wash thoroughly after handling.					
	1	No data available.					
	0.0	ation O. Dhuring and Chaming I Dreparties					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	cal and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):						
	Specific Gravity (Water = 1)						
	Solubility in Water:	No data.					
	Solubility Notes:	~0.25 mg/ml in a 1:3 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH, DMSO, & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatur						
	Viscosity:	No data.					
	Other Information						
9.2	Other Information						
9.2	Percent Volatile:	No data. ht: C17H21F3O3 330.3					



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	Section 10. Stability and Reactivity													
10.1	Reactivit	t y :	No data available.											
10.2	Stability	:	Unstable [] Stable [X]											
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.											
Polymerization:		Will occur [] Will not occur [X]												
10.4	Conditio	ns To Avoid:	No data avai	lable.										
10.5	Incompa	tibility - Materials	strong oxidiz	ing agents										
	To Avoid:													
10.6			carbon dioxid	de										
	Decomp	osition or	carbon mono	oxide										
	Byprodu	icts:	hydrogen flu	oride										
			Section	n 11. Toxicological	Informa	ation								
11.1	Informat	ion on	The toxicolog	gical effects of this product h	ave not beer	n thoroughly st	udied.							
	Toxicolo	gical Effects:												
Carcir	nogenicity	/:	NTP? No	IARC Monographs? No	OSHA Re	OSHA Regulated? No								
CAS	#	Hazardous Com	ponents (Che	emical Name)	NTP	IARC	ACGIH	OSHA						
1235	57-91-5	(R,S)-BHFF			n.a.	n.a.	n.a.	n.a.						
			Secti	on 12. Ecological I	nformat	ion								
12.1	Toxicity:		Avoid release	e into the environment.										
			Runoff from fire control or dilution water may cause pollution.											
12.2	Persiste	nce and	No data available.											
	Degrada	bility:												
12.3	Bioaccu	mulative	No data available.											
	Potentia	l:												
12.4	Mobility	in Soil:	No data available.											
12.5	Results	of PBT and vPvB	No data available.											
assessment:														
12.6 Other adverse effects:		No data available.												
	Section 13. Disposal Considerations													
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.														
	Section 14. Transport Information													
14.1	LAND T	RANSPORT (US I	DOT):											
D	OT Prope	r Shipping Name:	Not dang	gerous goods.										
D	OT Hazaro	d Class:												
UN/NA Number:														
14.1	14.1 LAND TRANSPORT (European ADR/RID):													
A	DR/RID SI	hipping Name:	Not dang	gerous goods.										
U	N Numbei	r:												
H	azard Cla	SS:												

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Calman
Caynan

14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

ne: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
123557-91-5 (R,S)-BHFF			No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or	State Lists		
123557-91-5	6 (R,S)-BHFF		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR	1910.1200 and R	egulation (EC)	
		Section 16. Oth	er Informatio	n		
Revision Date:		07/22/2018				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				